

#3 - Montgomery College CIP and Capital Budget: this resolution requires 6 affirmative votes.

Resolution No: 18-816  
Introduced: May 25, 2017  
Adopted: May 25, 2017

**COUNTY COUNCIL  
FOR MONTGOMERY COUNTY, MARYLAND**

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By: County Council

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**SUBJECT:** Approval of Amendments to the Approved FY 2017-2022 Capital Improvements Program, and Approval of and Appropriation for the FY 2018 Capital Budget of Montgomery College

**Background**

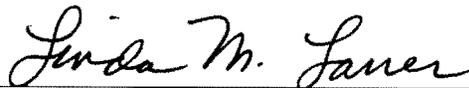
1. As required by the Education Article, Section 16-301 of the Maryland Code, the Montgomery College Board of Trustees sent to the County Executive and County Council an FY 2018 Capital Budget for Montgomery College. The Board also requested amendments to the Approved FY 2017-2022 Capital Improvements Program (CIP).
2. Section 302 of the County Charter requires the Executive to send to the Council by January 15 in each even-numbered calendar year a 6-year CIP, which the Executive did on January 15, 2016 for the 6-year period FY 2017-2022. Section 302 requires the affirmative vote of at least 5 Councilmembers to approve or modify the Executive's Recommended CIP. On May 26, 2016 the Council approved the College's CIP for FY 2017-2022 in Resolution 18-499. After the Council approves a CIP, Section 302 permits the Council to amend it at any time with the affirmative vote of at least 6 Councilmembers.
3. Section 303 of the Charter requires the Executive to send to the Council by January 15 in each year a recommended Capital Budget, which the Executive did on January 17, 2017 for FY 2018. (January 15 fell on a Sunday and January 16 fell on a holiday.) The Executive also sent to the Council his recommendations on amendments to the Approved FY 2017-2022 CIP.
4. On March 14, 2017 the Executive sent to the Council additional recommended amendments to the Approved FY 2017-2022 CIP, and Council staff recommended several other potential amendments.
5. As required by Section 304 of the Charter, notice of public hearing was given and a public hearing was held on the Capital Budget for FY 2018 and on amendments to the Approved FY 2017-2022 CIP.

**Action**

The County Council for Montgomery County, Maryland approves the following resolution:

1. For FY 2018, the Council approves the Capital Budget for Montgomery College and appropriates the amounts by project which are shown in part I. The expenditure of funds for each item in the Capital Budget must comply with all restrictions and requirements in the project description form for that item, as the form is contained in the Approved CIP as amended by the resolution, and as the CIP is amended by the Council under Charter Section 302 after this resolution is adopted.
  
2. The Council reappropriates the appropriations made in prior years for all capital projects:
  - a) except as specifically reflected elsewhere in this resolution;
  - b) in the amounts and for the purposes specified in the Approved CIP for FY 2017-2022; and
  - c) to the extent that those appropriations are not expended or encumbered.
  
3. The Council approves the projects shown in Part II as amendments to the Approved FY 2017-2022 CIP.
  
4. Any revenue which exceeds the amount estimated to be received from revenue sources other than County bonds must reduce the amount of bonds to be sold by the amount of the excess.
  
5. If a sign recognizing the contribution of any Federal, State, or local government or agency is displayed at any project for which funds are appropriated in this resolution, as a condition of spending those funds each sign must also expressly recognize the contribution of the County and the County's taxpayers.

This is a correct copy of Council action.



Linda M. Lauer, Clerk of the Council

**PART I: FY18 CAPITAL BUDGET FOR  
Montgomery College**

The appropriation for FY18 in this Part are made to implement the projects in the Capital Improvements Program for FY 2017 - 2022. When the total appropriation for a project includes State funds, the total appropriation for the project is contingent on the availability of funds from the State.

<b>Project Title (Project #)</b>	<b>FY 18 Appropriation</b>	<b>Cumulative Appropriation</b>	<b>Total Appropriation</b>
Site Improvements: College (P076601)	405,000	16,229,000	16,634,000
Takoma Park/Silver Spring Math & Science Center (P076607)	10,276,000	0	10,276,000
Student Learning Support Systems (P076617)	1,400,000	11,820,000	13,220,000
Network Operating Center/Datacenter (P076618)	2,000,000	24,554,000	26,554,000
Network Infrastructure and Support Systems (P076619)	1,800,000	15,117,000	16,917,000
Science East Building Renovation (P076623)	-1,861,000	30,956,000	29,095,000
Capital Renewal: College (P096600)	1,000,000	13,888,000	14,888,000
Instructional Furniture and Equipment: College (P096601)	270,000	2,370,000	2,640,000
Germantown Science & Applied Studies Phase 1-Renov (P136600)	5,316,000	35,369,000	40,685,000
Energy Conservation: College (P816611)	125,000	4,843,000	4,968,000
Information Technology: College (P856509)	8,500,000	119,447,000	127,947,000
Facility Planning: College (P886686)	270,000	5,507,000	5,777,000
Planning, Design & Construction (P906605)	1,656,000	26,498,000	28,154,000
Planned Lifecycle Asset Replacement: College (P926659)	4,961,000	47,072,000	52,033,000
ADA Compliance: College (P936660)	50,000	1,353,000	1,403,000
Collegewide Physical Education Renovations (P661602)	2,300,000	4,200,000	6,500,000
Collegewide Road/Parking Lot Repairs and Replacements (P661801)	500,000	0	500,000
Montgomery College	38,968,000	359,223,000	398,191,000

**PART II: REVISED PROJECTS**

Resolution No.: 18-816

**The projects described in this section were revised from, or were not included among, the projects approved by the County Council as they appeared in the Approved FY 2017 - 2022 Capital Improvements Program (CIP) as of May 26, 2016. These projects are approved.**

## Collegewide Physical Education Renovations (P661602)

Category                    Montgomery College  
 Sub Category            Higher Education  
 Administering Agency   Montgomery College (AAGE15)  
 Planning Area            Countywide

Date Last Modified            9/13/16  
 Required Adequate Public Facility    No  
 Relocation Impact            None  
 Status                            Preliminary Design Stage

	Total	Thru FY16	Rem FY16	Total 6 Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Beyond 6 Yrs
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### EXPENDITURE SCHEDULE (\$000s)

Planning, Design and Supervision	710	133	217	360	60	300	0	0	0	0	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	5,790	339	3,431	2,020	20	2,000	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>6,500</b>	<b>472</b>	<b>3,648</b>	<b>2,380</b>	<b>80</b>	<b>2,300</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

### FUNDING SCHEDULE (\$000s)

Major Facilities Capital Projects Fund (MC only)	6,500	472	3,648	2,380	80	2,300	0	0	0	0	0
<b>Total</b>	<b>6,500</b>	<b>472</b>	<b>3,648</b>	<b>2,380</b>	<b>80</b>	<b>2,300</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

### APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request Est.	FY 18	2,300
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		4,200
Expenditure / Encumbrances		4,171
Unencumbered Balance		29

Date First Appropriation	FY 16	
First Cost Estimate		
Current Scope	FY 18	6,500
Last FY's Cost Estimate		4,200

#### **Description**

This project provides funding for the renovation of physical education buildings on the Montgomery College's three campuses, specifically the Germantown Physical Education building, the Rockville Physical Education Center, and Takoma Park/Silver Spring Falcon Hall building. The College completed a facilities condition assessment of these buildings in December 2013 that evaluated all building systems and related equipment and identified major repair and/or replacement requirements. In addition, this project will fund turf to support the College's athletic program. This project also funds title IX improvements.

#### **Justification**

The Germantown Physical Education building was constructed in 1980, and is 35 years old. The Rockville Physical Education Center was constructed in 1966, and is 49 years old. The Takoma Park/Silver Spring Falcon Hall building was constructed in 1978, and is 37 years old. All three of these buildings are experiencing a progressive deterioration of building systems and major pieces of building equipment. It has now reached the point that addressing the problem of a deteriorating building infrastructure is beyond the scope of a maintenance effort and that building repairs are no longer adequate or cost effective. Key components of the HVAC, mechanical and electrical systems are outdated, energy inefficient, and costly to continue to repair. The refurbishment and/or replacement of major building systems and related equipment will significantly extend the useful life of the building and correct safety and environmental problems. The College completed a building condition assessment in 2013 that provides a detailed evaluation of building deficiencies and initial cost estimates for major repairs, equipment replacements, and related improvements. Related studies include: the Collegewide Master Plan Update (1/15), and the Collegewide Facilities Condition Assessment (12/13).

#### **Other**

FY18 Appropriation: \$2,300,000 (Major Facilities Capital Projects Fund-MC only).

#### **Coordination**

Energy Conservation: College (CIP No. P816611), Planned Lifecycle Asset Replacement: College (CIP No. P926659), Roof Replacement: College (CIP No. P876664).

# Collegewide Road/Parking Lot Repairs and Replacements (P661801)

Category                    Montgomery College  
 Sub Category            Higher Education  
 Administering Agency   Montgomery College (AAGE15)  
 Planning Area            Countywide

Date Last Modified            1/3/17  
 Required Adequate Public Facility    No  
 Relocation Impact            None  
 Status                            Preliminary Design Stage

	Total	Thru FY16	Rem FY16	Total 6 Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Beyond 6 Yrs
<b>EXPENDITURE SCHEDULE (\$000s)</b>											
Planning, Design and Supervision	150	0	0	150	0	50	50	50	0	0	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	1,350	0	0	1,350	0	450	450	450	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>1,500</b>	<b>0</b>	<b>0</b>	<b>1,500</b>	<b>0</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>0</b>	<b>0</b>	<b>0</b>

<b>FUNDING SCHEDULE (\$000s)</b>											
Transportation Facilities Capital Projects Fund (MC only)	1,500	0	0	1,500	0	500	500	500	0	0	0
<b>Total</b>	<b>1,500</b>	<b>0</b>	<b>0</b>	<b>1,500</b>	<b>0</b>	<b>500</b>	<b>500</b>	<b>500</b>	<b>0</b>	<b>0</b>	<b>0</b>

### APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request Est.	FY 18	500
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		0
Expenditure / Encumbrances		0
Unencumbered Balance		0

Date First Appropriation		
First Cost Estimate		
Current Scope	FY 18	1,500
Last FY's Cost Estimate		
		0

**Description**

This project provides funding for the repair, maintenance and improvements of the College's parking lots, roadways, walkways, and associated site infrastructure, such as lighting, signage, site communications, and security, and storm water management.

**Justification**

The College completed a facilities condition assessment in December 2013 that evaluated these systems and identified major repair and/or replacement requirements. Related studies include: the Collegewide Master Plan 2013-2023 (2/16), and the Collegewide Facilities Condition Assessment (12/13).

**Other**

FY18 Appropriation: \$500,000 (Transportation Facilities Capital Projects Fund-MC only).

**Coordination**

This project is coordinated with Utility Master Plans and building renovations on the Rockville, Germantown, and Takoma Park/Silver Spring Campuses, Capital Renewal: College (CIP No. P096600), and Site Improvements: College (P076601).

## Germantown Observation Drive Reconstruction (P096604)

Category                    Montgomery College  
 Sub Category            Higher Education  
 Administering Agency   Montgomery College (AAGE15)  
 Planning Area            Germantown

Date Last Modified        1/3/17  
 Required Adequate Public Facility    No  
 Relocation Impact        None  
 Status                      Final Design Stage

	Total	Thru FY16	Rem FY16	Total 6 Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Beyond 6 Yrs
<b>EXPENDITURE SCHEDULE (\$000s)</b>											
Planning, Design and Supervision	200	92	8	100	50	50	0	0	0	0	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	800	717	33	50	0	0	50	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>1,000</b>	<b>809</b>	<b>41</b>	<b>150</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

<b>FUNDING SCHEDULE (\$000s)</b>											
G.O. Bonds	1,000	809	41	150	50	50	50	0	0	0	0
<b>Total</b>	<b>1,000</b>	<b>809</b>	<b>41</b>	<b>150</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

### APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request Est.	FY 18	0
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		1,000
Expenditure / Encumbrances		809
Unencumbered Balance		191

Date First Appropriation	FY 09
First Cost Estimate	
Current Scope	FY09                    1,000
Last FY's Cost Estimate	1,000

#### **Description**

This project funds the design for reconstruction of the existing main entrance road, and for signage at the Observation Drive/MD-118 entrance into the Campus. On-going repairs to the main road on the Germantown Campus are no longer sufficient and existing conditions require a major reconstruction. Originally constructed in the mid 1970's, this road was largely constructed on grade without the sub-base construction that is now typical for roads with the heavy vehicle and bus traffic that the Campus operations impose.

#### **Justification**

During the Fall 2014 semester, 7,316 students attended the Germantown campus, and the existing main entrance road (Observation Drive) is inadequate for serving the current and growing student body and requires reconstruction due to the heavy vehicle and bus traffic currently experienced on the campus. According to the Geotechnical Report for Observation Drive Pavement Assessment, problems identified with the existing Observation Drive are the non-existent sub base, longitudinal cracks, alligator cracks, potholes, and raveling. Related studies include the Collegewide Facilities Condition Assessment (12/13), and the Geotechnical Report for Observation Drive Pavement Assessment (5/07).

#### **Other**

Funding Source: G.O. Bonds.

#### **Coordination**

Site Improvements: College (CIP No. P076601)

# Germantown Science & Applied Studies Phase 1-Renov (P136600)

Category	Montgomery College	Date Last Modified	9/2/16
Sub Category	Higher Education	Required Adequate Public Facility	No
Administering Agency	Montgomery College (AAGE15)	Relocation Impact	None
Planning Area	Germantown	Status	Planning Stage

	Total	Thru FY16	Rem FY16	Total 6 Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Beyond 6 Yrs
<b>EXPENDITURE SCHEDULE (\$000s)</b>											
Planning, Design and Supervision	4,529	4,046	483	0	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	30,840	5,000	0	25,840	15,000	10,840	0	0	0	0	0
Other	5,316	0	0	5,316	0	5,316	0	0	0	0	0
<b>Total</b>	<b>40,685</b>	<b>9,046</b>	<b>483</b>	<b>31,156</b>	<b>15,000</b>	<b>16,156</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

<b>FUNDING SCHEDULE (\$000s)</b>											
G.O. Bonds	20,953	4,932	241	15,780	7,500	8,280	0	0	0	0	0
State Aid	19,732	4,114	242	15,376	7,500	7,876	0	0	0	0	0
<b>Total</b>	<b>40,685</b>	<b>9,046</b>	<b>483</b>	<b>31,156</b>	<b>15,000</b>	<b>16,156</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

### APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request Est.	FY 18	5,316
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		35,369
Expenditure / Encumbrances		33,979
Unencumbered Balance		1,390

Date First Appropriation	FY 13
First Cost Estimate	
Current Scope	FY 18
Last FY's Cost Estimate	40,541

### Description

This project provides for the realignment/renovation of space in the Science and Applied Studies building (65,015 GSF) on the Germantown Campus in accordance with the College's Facilities Master Plan (9/10) and the building educational space specifications. The renovated building will house open class labs, classrooms, offices and support space related to the physics, engineering, and mathematics departments. The Science and Applied Studies Renovation will occur in two phases. The first phase involves the renovation of the second floor, and a 29,330 GSF building addition, to support the Physics, Engineering, and Mathematics disciplines. There will be vacant space in a portion of the building when various departments move to the Bioscience Education Center, which makes it necessary to renovate this building to support new disciplines. The current building layout is inappropriate for the Physics, Engineering, and Mathematics departments, which makes it necessary to renovate laboratory spaces, classrooms, and faculty and staff offices. This building also has outdated laboratory equipment, which does not properly support the new functions, and technological changes in teaching methods. Programmatic changes are necessary to prepare this building for these uses. The second phase of this project will deal with the renovation of the first floor. Overall growth at the Germantown Campus in combination with the transition to lab instruction for mathematics and engineering expansion has created the demand for additional academic space. Renovation for these disciplines co-locates them near the Bioscience Education Center, creating good programmatic synergy on the campus. Renovation of this facility is contingent on completion of the Bioscience Education Center. Based on student interest, enrollment trends, existing and projected County and State workforce needs, and the teaching and learning strategies, including the final report of The Governor's Science Technology Engineering Mathematics Task Force, Investing in STEM to Secure Maryland's Future, the Germantown Campus will be well positioned to meet the needs of its students and the region. Design funding for this project was appropriated in FY13, and construction funding was appropriated in FY16.

### Estimated Schedule

Project construction is scheduled to be completed in the summer of 2018.

### Justification

Under the application of the State space guidelines, the enrollment growth on the Germantown Campus has resulted in a significant instructional space deficit. The Germantown Campus has a 2024 projected instructional space deficit of 190,098 NASF and a total space deficit anticipated to be 317,384 NASF. In addition, this project will position the College to address workforce shortages in the Science, Technology, Engineering, and Mathematics fields. This project will impact local and Maryland workforce shortages through educating students to fill technical jobs. Relevant studies include the Collegewide Facilities Master Plan Update (1/15), the Renovation/Addition to Sciences & Applied Studies Building at Montgomery College Germantown Campus, Part 1, Part 2 (3/11), and the Collegewide Facilities Conditions Assessment Update (12/13),

### Other

## Germantown Science & Applied Studies Phase 1-Renov (P136600)

FY17 Appropriation: \$0 FY18 Appropriation: \$5,316,000 Total: \$2,860,000 (G.O. Bonds), \$2,456,000 (State Aid). Project expenditures assume that a portion of Information Technology (IT) equipment costs may be funded through the Information Technology (No. P856509) project. The construction costs in the expenditure schedule (\$30,840,000) include: site improvement costs (\$2,390,000), building construction costs (\$28,450,000). The building construction cost per gross square foot equals \$438 (\$28,450,000/65,015).

### **Disclosures**

A pedestrian impact analysis has been completed for this project.

Montgomery College (A15) asserts that this project conforms to the requirements of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

### **Coordination**

Facility Planning: College (No. P886686), Bioscience Education Center (No. P056603), Energy Conservation: College (No. P816611), PLAR: College (No. P926659)

## Germantown Student Services Center (P076612)

Category: Montgomery College  
 Sub Category: Higher Education  
 Administering Agency: Montgomery College (AAGE15)  
 Planning Area: Germantown

Date Last Modified: 12/28/16  
 Required Adequate Public Facility: No  
 Relocation Impact: None  
 Status: Planning Stage

	Total	Thru FY16	Rem FY16	Total 6 Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Beyond 6 Yrs
<b>EXPENDITURE SCHEDULE (\$000s)</b>											
Planning, Design and Supervision	9,152	0	0	6,000	0	0	0	0	0	6,000	3,152
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	45,694	0	0	0	0	0	0	0	0	0	45,694
Other	4,570	0	0	0	0	0	0	0	0	0	4,570
<b>Total</b>	<b>59,416</b>	<b>0</b>	<b>0</b>	<b>6,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,000</b>	<b>53,416</b>

<b>FUNDING SCHEDULE (\$000s)</b>											
G.O. Bonds	29,708	0	0	3,000	0	0	0	0	0	3,000	26,708
State Aid	29,708	0	0	3,000	0	0	0	0	0	3,000	26,708
<b>Total</b>	<b>59,416</b>	<b>0</b>	<b>0</b>	<b>6,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,000</b>	<b>53,416</b>

### APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request Est.	FY 18	0
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		0
Expenditure / Encumbrances		0
Unencumbered Balance		0

Date First Appropriation	
First Cost Estimate	
Current Scope	FY 18 59,416
Last FY's Cost Estimate	90,642

#### Description

This project provides funds for the design and construction of a new student resource center (approximately 95,000 gross square feet) to support both study and student services as outlined in the Germantown Campus Facilities Master Plan, 2013-2023 (2/16). This project provides a comprehensive one-stop shop and brings together the bookstore and Mailroom from the Humanities and Social Sciences Building; Admissions, Student Life and Security from the Science and Applied Studies Building, creating much more space for study and student development. This building will also house the Provost's Office, as well as media and academic computing support functions.

#### Cost Change

Design of this project was delayed from FY19 to FY22. The cost was reduced to reflect a change in the project scope.

#### Justification

Supported in this facility are the media resources and academic computing functions, including the computer training lab. The advantage for students is the concentration of support resources in a single location. For the campus, space is made available in other buildings that will allow more growth in office and instructional space before another academic building is needed on campus. Under the application of State space guidelines, the enrollment growth on the Germantown campus has resulted in a significant space deficit. The Germantown campus has a fall 2015 space deficit of 94,334 NASF, and a 2025 projected space deficit of 212,579. Relevant studies include the Collegewide Facilities Master Plan 2013-2023 (2/16).

#### Other

Funding Sources: G.O. Bonds and State Aid. State share of project is based on anticipated eligible costs. Relocation costs and design fees above approximately 7% of estimated construction costs may not be eligible for State reimbursement. The construction costs in the expenditure schedule (\$45,694,000) include: site improvement costs (\$8,861,000), building construction costs (\$36,833,000). The building construction cost per gross square foot equals \$388 (\$36,833,000/95,000).

#### Disclosures

A pedestrian impact analysis has been completed for this project.

Montgomery College (A15) asserts that this project conforms to the requirements of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

#### Coordination

Sciences and Applied Studies Building Alterations (CIP# P056605)

## Planning, Design & Construction (P906605)

Category: Montgomery College  
 Sub Category: Higher Education  
 Administering Agency: Montgomery College (AAGE15)  
 Planning Area: Countywide

Date Last Modified: 12/30/16  
 Required Adequate Public Facility: No  
 Relocation Impact: None  
 Status: Ongoing

	Total	Thru FY16	Rem FY16	Total 6 Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Beyond 6 Yrs
<b>EXPENDITURE SCHEDULE (\$000s)</b>											
Planning, Design and Supervision	26,308	17,758	1,112	7,438	1,208	1,246	1,246	1,246	1,246	1,246	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	8,470	6,044	0	2,426	376	410	410	410	410	410	0
Other	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>34,778</b>	<b>23,802</b>	<b>1,112</b>	<b>9,864</b>	<b>1,584</b>	<b>1,656</b>	<b>1,656</b>	<b>1,656</b>	<b>1,656</b>	<b>1,656</b>	<b>0</b>

<b>FUNDING SCHEDULE (\$000s)</b>											
Current Revenue: General	18,314	13,176	206	4,932	792	828	828	828	828	828	0
G.O. Bonds	16,464	10,626	906	4,932	792	828	828	828	828	828	0
<b>Total</b>	<b>34,778</b>	<b>23,802</b>	<b>1,112</b>	<b>9,864</b>	<b>1,584</b>	<b>1,656</b>	<b>1,656</b>	<b>1,656</b>	<b>1,656</b>	<b>1,656</b>	<b>0</b>
Full Time Equivalent (FTE)					16.0	16.0	16.0	16.0	16.0	16.0	

### APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request Est.	FY 18	1,656
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		26,498
Expenditure / Encumbrances		24,152
Unencumbered Balance		2,346

Date First Appropriation	FY 90
First Cost Estimate	
Current Scope	FY 18 35,148
Last FY's Cost Estimate	34,418
Partial Closeout Thru	0
New Partial Closeout	0
Total Partial Closeout	0

#### Description

This project provides for sixteen full time positions in the Facilities Office. These positions plan, design, manage and implement the College's capital program which extends beyond the current six years. These sixteen positions are broken down into 3 categories: Project Management Staff; Design Staff; and Construction Staff. The positions that are categorized as Project Management Staff are Project Managers (8), and Project Support Staff (1). The Project Managers are responsible for budget development, program planning, and project management through to completion. The Project Support Staff supports the goals of the Project Managers. The positions that are categorized as Design Staff are Architect (2), Engineer (1), and Architectural Drafter/Designer (1). The final category is Construction Staff, which consists of a Construction Services Supervisor (1), and Construction Trades Workers (2), who are responsible for completing small, in-house construction projects.

#### Cost Change

Increase due to the addition of 4.5% salary increase approved during the FY17 budget cycle.

#### Justification

The above staff supports the increased work load associated with the College's CIP and complements the existing staff expertise. The College's CIP has increased substantially since the mid-1980s and the then existing staff could no longer support the additional projects.

#### Other

FY2017 Appropriation: \$1,584,000; \$792,000 (G.O. Bonds) and \$792,000 (Current Revenue: General). FY2018 Appropriation: \$1,656,000; \$828,000 (G.O. Bonds) and \$828,000 (Current Revenue: General). The following fund transfers have been made from this project: \$111,000 to Information Technology (#P856509) (BOT Resol. #91-56; \$400,000 to the Takoma Park Expansion project (#996662) (BOT Resol. #07-01-005, 1/16/07). The following fund transfer has been made into this project: \$28,000 (\$7,000 each) from ADA Compliance (#P936660), Energy Conservation (#P816611), Facility Planning (#P886686), PLAR (#P926659) (BOT Resol. #01-153), and \$150,000 from the Takoma Park Campus Expansion (#P996662) (BOT Resol. #11-06-078, 06-20-11), and \$700,000 from the Bioscience Education Center project (#P056603) (BOT Resol. #16-04-051, 4/18/16). During FY87-89, certain personnel costs were charged to individual capital projects. As some staff work is required on every capital project, separately identifying staff funding is an efficient and cost effective method of management for the College and provides a clear presentation of staff costs.

#### Disclosures

Expenditures will continue indefinitely.

## Rockville Student Services Center (P076604)

Category: Montgomery College  
 Sub Category: Higher Education  
 Administering Agency: Montgomery College (AAGE15)  
 Planning Area: Rockville

Date Last Modified: 9/2/16  
 Required Adequate Public Facility: No  
 Relocation Impact: None  
 Status: Planning Stage

	Total	Thru FY16	Rem FY16	Total 6 Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Beyond 6 Yrs
<b>EXPENDITURE SCHEDULE (\$000s)</b>											
Planning, Design and Supervision	10,369	6,089	4,280	0	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	53,716	4	0	53,712	28,768	24,944	0	0	0	0	0
Other	11,169	0	0	11,169	0	0	11,169	0	0	0	0
<b>Total</b>	<b>75,254</b>	<b>6,093</b>	<b>4,280</b>	<b>64,881</b>	<b>28,768</b>	<b>24,944</b>	<b>11,169</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

<b>FUNDING SCHEDULE (\$000s)</b>											
G.O. Bonds	38,774	3,162	2,183	33,429	14,384	12,472	6,573	0	0	0	0
State Aid	36,480	2,931	2,097	31,452	14,384	12,472	4,596	0	0	0	0
<b>Total</b>	<b>75,254</b>	<b>6,093</b>	<b>4,280</b>	<b>64,881</b>	<b>28,768</b>	<b>24,944</b>	<b>11,169</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

### APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request Est.	FY 18	0
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		64,085
Expenditure / Encumbrances		6,120
Unencumbered Balance		57,965

Date First Appropriation	FY 13
First Cost Estimate	
Current Scope	FY 18 75,254
Last FY's Cost Estimate	74,986

### Description

This project provides funds for the construction of a new student services center (127,960 gross square feet) to support student administrative services as outlined in the Rockville Campus Facilities Master Plan, 2006-2016 (9/10). This project brings together student and administrative services to support the concept of one stop shopping services for students. Specifically, it will include the following campus related functions and activities: Admissions and Registration, Financial Aid, Cashier, Dean of Student Development, Career Transfer Center, Assessment, Counseling, Disabled Student Services (DSS), and Trio program plus support services such as a training facility, storage, resource library and waiting areas. In addition, this building will house the Office of Safety and Security and a new parking department. This project also includes funding for a central plant located in the Student Services Center and funding for a road extension/site improvements related to the building.

### Estimated Schedule

Project construction is scheduled to be completed in the spring 2019.

### Cost Change

Project expenditures assume that a portion of Information Technology (IT) equipment costs may be funded through the Information Technology (No. P856509) project. The cost of this project has increased to match the State's allowed cost escalation of 3%. The furniture and equipment has been deferred from FY18 to FY19 to better align with the project schedule.

### Justification

Currently, these intake functions are fragmented and are insufficiently accommodated: Student Development is located in the Counseling & Advising Building; the assessment program is located in Campus Center; Admissions, Registration and Financial Aid are located in the Student Services Building. Bringing these functions under one roof will be of great benefit to students by increasing the efficiency of the intake operations. Relevant studies include the Collegewide Facilities Condition Assessment (12/13), the Collegewide Facilities Master Plan Update (1/15), and the Rockville Student Services Center Part 1/Part 2 (5/11).

### Other

FY17 Appropriation: \$53,712,000 Total: \$26,856,000 (G.O. Bonds), and \$26,856,000 (State Aid). FY18 Appropriation: \$0. Relocation costs and design fees above approximately 7% of estimated construction costs may not be eligible for State reimbursement. The construction costs in the expenditure schedule (\$53,712,000) include: site improvement costs (\$9,553,000), building construction costs (\$44,159,000). The building construction cost per gross square foot equals \$348 (\$44,159,000/126,756).

### Disclosures

A pedestrian impact analysis will be performed during design or is in progress.

Montgomery College (A15) asserts that this project conforms to the requirements of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

### Coordination

## Rockville Student Services Center (P076604)

Facility Planning: College (CIP #P886686)

# Takoma Park/Silver Spring Math & Science Center (P076607)

Category: Montgomery College  
 Sub Category: Higher Education  
 Administering Agency: Montgomery College (AAGE15)  
 Planning Area: Takoma Park

Date Last Modified: 5/22/17  
 Required Adequate Public Facility: No  
 Relocation Impact: None  
 Status: Planning Stage

	Total	Thru FY16	Rem FY16	Total 6 Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Beyond 6 Yrs
<b>EXPENDITURE SCHEDULE (\$000s)</b>											
Planning, Design and Supervision	10,276	0	0	10,276	0	1,500	4,582	4,194	0	0	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	68,502	0	0	68,502	0	0	0	8,690	27,500	32,312	0
Other	6,850	0	0	6,850	0	0	0	0	0	6,850	0
<b>Total</b>	<b>85,628</b>	<b>0</b>	<b>0</b>	<b>85,628</b>	<b>0</b>	<b>1,500</b>	<b>4,582</b>	<b>12,884</b>	<b>27,500</b>	<b>39,162</b>	<b>0</b>

<b>FUNDING SCHEDULE (\$000s)</b>											
G.O. Bonds	42,814	0	0	42,814	0	750	2,291	6,442	13,750	19,581	0
State Aid	42,814	0	0	42,814	0	750	2,291	6,442	13,750	19,581	0
<b>Total</b>	<b>85,628</b>	<b>0</b>	<b>0</b>	<b>85,628</b>	<b>0</b>	<b>1,500</b>	<b>4,582</b>	<b>12,884</b>	<b>27,500</b>	<b>39,162</b>	<b>0</b>

### APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request Est.	FY 18	10,276
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		0
Expenditure / Encumbrances		0
Unencumbered Balance		0

Date First Appropriation	FY 16
First Cost Estimate	
Current Scope	FY 18 85,628
Last FY's Cost Estimate	87,928

#### Description

This project provides funding for the design and construction of a new academic building (134,600 gross square feet) supporting science programs, such as biology, chemistry, computer science and cybersecurity, engineering, geology, physics, and the mathematics department, as described in the Takoma Park Campus Facilities Master Plan, 2013-2023 (2/16). The new math and science building will replace the Science South and Falcon Hall buildings, which will be demolished, and the new building will be constructed on this site.

#### Cost Change

Project expenditures assume that a portion of Information Technology (IT) equipment costs may be funded through the Information Technology (No. P856509) project. The cost of this project has increased to match the State's allowable cost escalation factor (3%). The cost of this project was reduced to reflect a change in the project's construction schedule.

#### Justification

Under the application of the State space guidelines, the enrollment growth on the Takoma Park/Silver Spring Campus has resulted in a significant instructional space deficit. The Takoma Park/Silver Spring Campus has a Fall 2015 laboratory space deficit of 58,894 NASF and a total space deficit of 39,889 NASF. The 2025 projected laboratory space deficit is 44,751 NASF and the total space deficit is anticipated to be 100,636 NASF. The construction of the math & science building will address this deficit as well as replace Science South and Falcon Hall, which are in exceedingly poor condition (as identified in the Collegewide Facilities Condition Assessment, 12/13). Relevant studies include the Collegewide Facilities Condition Assessment Update (12/13), and the Collegewide Facilities Master Plan 2013-2023 (2/16).

#### Other

FY17 Appropriation: 0 FY18 Appropriation: \$10,276,000; \$5,138,000 (G.O. Bonds), and \$5,138,000 (State Aid). Relocation costs and design fees above approximately 7% of estimated construction costs may not be eligible for State reimbursement. The construction costs in the expenditure schedule (\$68,502,000) include: site improvement costs (\$6,335,000), building construction costs (\$62,167,000). The building construction cost per gross square foot equals \$462 (\$62,167,000/134,600).

#### Disclosures

A pedestrian impact analysis has been completed for this project.

Montgomery College (A15) asserts that this project conforms to the requirements of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

#### Coordination

Facility Planning: College (CIP No. P886686)

# Planned Lifecycle Asset Replacement: College (P926659)

Category                    Montgomery College  
 Sub Category            Higher Education  
 Administering Agency   Montgomery College (AAGE15)  
 Planning Area            Countywide

Date Last Modified            5/19/17  
 Required Adequate Public Facility    No  
 Relocation Impact            None  
 Status                            Ongoing

	Total	Thru FY16	Rem FY16	Total 6 Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Beyond 6 Yrs
<b>EXPENDITURE SCHEDULE (\$000s)</b>											
Planning, Design and Supervision	7,513	4,745	468	2,300	300	400	400	400	400	400	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	58,349	38,849	0	19,500	2,400	4,561	1,739	3,600	3,600	3,600	0
Other	310	294	16	0	0	0	0	0	0	0	0
<b>Total</b>	<b>66,172</b>	<b>43,888</b>	<b>484</b>	<b>21,800</b>	<b>2,700</b>	<b>4,961</b>	<b>2,139</b>	<b>4,000</b>	<b>4,000</b>	<b>4,000</b>	<b>0</b>

<b>FUNDING SCHEDULE (\$000s)</b>											
Current Revenue: General	1,940	1,940	0	0	0	0	0	0	0	0	0
G.O. Bonds	64,232	41,948	484	21,800	2,700	4,961	2,139	4,000	4,000	4,000	0
<b>Total</b>	<b>66,172</b>	<b>43,888</b>	<b>484</b>	<b>21,800</b>	<b>2,700</b>	<b>4,961</b>	<b>2,139</b>	<b>4,000</b>	<b>4,000</b>	<b>4,000</b>	<b>0</b>

### APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request Est.	FY 18	4,961
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		47,072
Expenditure / Encumbrances		44,846
Unencumbered Balance		2,226

Date First Appropriation	FY 93	
First Cost Estimate		
Current Scope	FY 17	66,172
Last FY's Cost Estimate		67,072
Partial Closeout Thru		0
New Partial Closeout		0
Total Partial Closeout		0

### Description

This project provides funding for a comprehensive lifecycle renewal and replacement program to protect the investment in College facilities and equipment and to meet current safety and environmental requirements. Funding also provides for project management staff and/or services. This collegewide project is targeted at deteriorating facilities and deferred maintenance of major building systems. This project includes: (1) HVAC system renovation/replacement; (2) major mechanical/plumbing equipment renovation/replacement; (3) interior and exterior lighting system renovation/replacements; (4) electrical service/switchgear renovation/replacement; (5) building structural and exterior envelope refurbishment; (6) asbestos removals not tied to building renovations; (7) major carpet replacement; (8) underground petroleum tank upgrades; and (9) site utility, and site infrastructure replacement/ improvements. Note: The Life Safety Systems project, (CIP No. P046601), has been merged into this project. This project also provides design and construction funding for the correction of life safety and fire code deficiencies identified in the Collegewide Facilities Condition Audit prepared by Vanderweil Facility Advisors (VFA). The scope of this project includes the installation and/or replacement of fire alarm systems, fire sprinkler systems, smoke control systems, emergency power systems, emergency lighting systems, public address systems, and similar equipment and operations.

### Justification

In November 2007 (December 2013 update), the College updated a comprehensive building system/equipment assessment, including site utilities and improvements, that identified deficiencies, prioritized replacements and upgrades, and provided the framework for implementing a systematic capital renewal program to complement on-going preventive maintenance efforts. The College continues to have a significant backlog of major building systems and equipment renovations and/or replacements due to the age of the Campuses and deferral of major equipment replacement. Key components of the HVAC, mechanical and electrical systems are outdated, energy inefficient, and costly to continue to repair. The renovation and/or replacement of major building systems, building components and equipment, and site improvements will significantly extend the useful life of the College's buildings and correct safety and environmental problems. The Collegewide Facilities Condition Assessment Update (12/13) identified a \$85 million deferred maintenance backlog for the three campuses. If additional financial resources are not directed at this problem, facilities will continue to deteriorate leading to higher cost renovations or building replacements. The Collegewide Facilities Condition Audit identified various life safety concerns on all three campuses. This project allows the College to address the concerns, replacing and/or installing appropriate life safety or fire code measures, and ensuring compliance with applicable life safety, fire, and building codes. Other relevant plans and studies include the Collegewide Facilities Master Plan Update (1/15), and the County Council Report of the Infrastructure Maintenance Task Force (3/14).

### Other

## Planned Lifecycle Asset Replacement: College (P926659)

FY2018 Appropriation: \$4,961,000 (G.O. Bonds). The following fund transfers have been made from this project: \$47,685 to Takoma Park Child Care Center (CIP No. P946657) (BOT Resol. #93-106, #94-26 & #941-28); \$185,000 to Rockville Surge Building (CIP No. P966665) (BOT Resol. #11-2291 - 1/21/97); \$7,000 to Planning, Design & Construction (CIP No. P906605) (BOT Resol. #01-153); \$91,175 to the Art Building Renovation Project (CIP No. P906608) (BOT Resol. # 06-09-106 - 9/18/06); and \$250,000 to the Takoma Park Expansion Project (CIP No. P996662) (BOT Resol. #07-01-005 - 1/16/07). The following fund transfers have been made into this project: \$15,000 from Central Plant Distribution System (CIP No. P886676) (BOT Resol. #98-82 - 6/15/98), \$25,000 from Clean Air Act (CIP No. P956643) (BOT Resol. # 98-82 - 6/15/98), and \$24,000 from the Rockville Campus Science Center Project (CIP No. P036600) (BOT Resol. # 15-03-025 - 03/23/15). Beginning in FY98, the portion of this project funded by County Current Revenues migrated to the College's Operating Budget. Reflecting the migration of this portion of the project, the College's Operating Budget includes funds for this effort. The following fund transfer has been made from this project: \$67,000 to the Commons Building Renovation Project (CIP No. P056601) (BOT Resolution #10-08-057, 07/31/10).

### **Disclosures**

Expenditures will continue indefinitely.

### **Coordination**

This project is coordinated with Utility Master Plans and building renovations on the Rockville, Germantown, and Takoma Park/Silver Spring Campuses; and the following projects: Capital Renewal: College (CIP No. P096600), Elevator Modernization: College (CIP No. P046600), Energy Conservation: College (CIP No. P816611), Facility Planning: College (CIP No. P886686), Macklin Tower Alterations (CIP No. P036603), Roof Replacement: College (CIP No. P876664), Computer Science Alterations (CIP No. P046602).

# Science East Building Renovation (P076623)

Category	Montgomery College	Date Last Modified	5/19/17
Sub Category	Higher Education	Required Adequate Public Facility	No
Administering Agency	Montgomery College (AAGE15)	Relocation Impact	None
Planning Area	Rockville	Status	Under Construction

	Total	Thru FY16	Rem FY16	Total 6 Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Beyond 6 Yrs
<b>EXPENDITURE SCHEDULE (\$000s)</b>											
Planning, Design and Supervision	3,822	3,576	246	0	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	22,175	22,086	89	0	0	0	0	0	0	0	0
Other	3,098	2,245	853	0	0	0	0	0	0	0	0
<b>Total</b>	<b>29,095</b>	<b>27,907</b>	<b>1,188</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

	Total	FY16	FY17	FY18	FY19	FY20	FY21	FY22	Beyond 6 Yrs
<b>FUNDING SCHEDULE (\$000s)</b>									
G.O. Bonds	15,742	15,742	0	0	0	0	0	0	0
State Aid	13,353	12,165	1,188	0	0	0	0	0	0
<b>Total</b>	<b>29,095</b>	<b>27,907</b>	<b>1,188</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

### APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request Est.	FY 18	-1,861
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		30,956
Expenditure / Encumbrances		27,907
Unencumbered Balance		3,049

Date First Appropriation	FY 09
First Cost Estimate	
Current Scope	FY 18
Last FY's Cost Estimate	30,956

### Description

This project provides for the realignment/renovation of space in the Science East building (60,793 GSF) on the Rockville campus in accordance with the College's Facilities Master Plan (1/04) and the building educational space specifications. The renovated building will house general purpose classrooms, and the mathematics and education departments. The building renovation will include general building improvements, HVAC system replacement and related energy conservation measures, and building access improvements. A building survey in FY89 determined that the building structure is fireproofed with a sprayed on asbestos product and asbestos thermal insulation is used on the mechanical systems. Asbestos removal is determined to be the most appropriate response under Federal and State asbestos guidelines. The removal project will include mechanical system re-insulation and re-fireproofing in conformance with the local fire code.

### Estimated Schedule

Project construction was completed in Spring 2014.

### Cost Change

Funds no longer needed in the project were reduced in the FY18 budget process.

### Justification

Science East was constructed in 1965 and the greenhouse addition was constructed in 1970. The building no longer adequately supports the educational programs and support functions housed in it. The College plans to coordinate the renovation of Science East with the construction of the Rockville Science Center. The Biology and Physics departments will relocate to the new Rockville Science Center when it is completed in FY11. The existing mechanical system is inadequate and will be replaced along with the existing lighting to create better illumination levels and greater energy efficiency. The funds requested will also provide for the reassignment, realignment, and renovation of space, including furniture and equipment; energy conservation; and handicapped modification measures. Relevant studies include the Collegewide Facilities Condition Assessment (12/13), a Collegewide Facilities Master Plan Update (1/15), and the Part 1 and 2 Program submitted to the State for the Renovation/Addition to the Science East & Science West Buildings (5/06).

### Other

Funding sources: G.O. Bonds, and State Aid. State share of project is based on anticipated eligible costs. Relocation costs and design fees above approximately 7% of estimated construction costs may not be eligible for State reimbursement. Building renovation planning and design began in FY09 with building asbestos removal and renovation scheduled to begin in FY12. The following G.O Bond fund transfer was made from this project: \$1,400,000 to the Site Improvements project (#P076601)(BOT Resol. #15-09-77, 9/21/15).

### Disclosures

A pedestrian impact analysis has been completed for this project.

Montgomery College (A15) asserts that this project conforms to the requirements of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

### Coordination

## Science East Building Renovation (P076623)

Rockville Science Center (CIP No. P036600), Science West Building Renovation (CIP No. P976645)